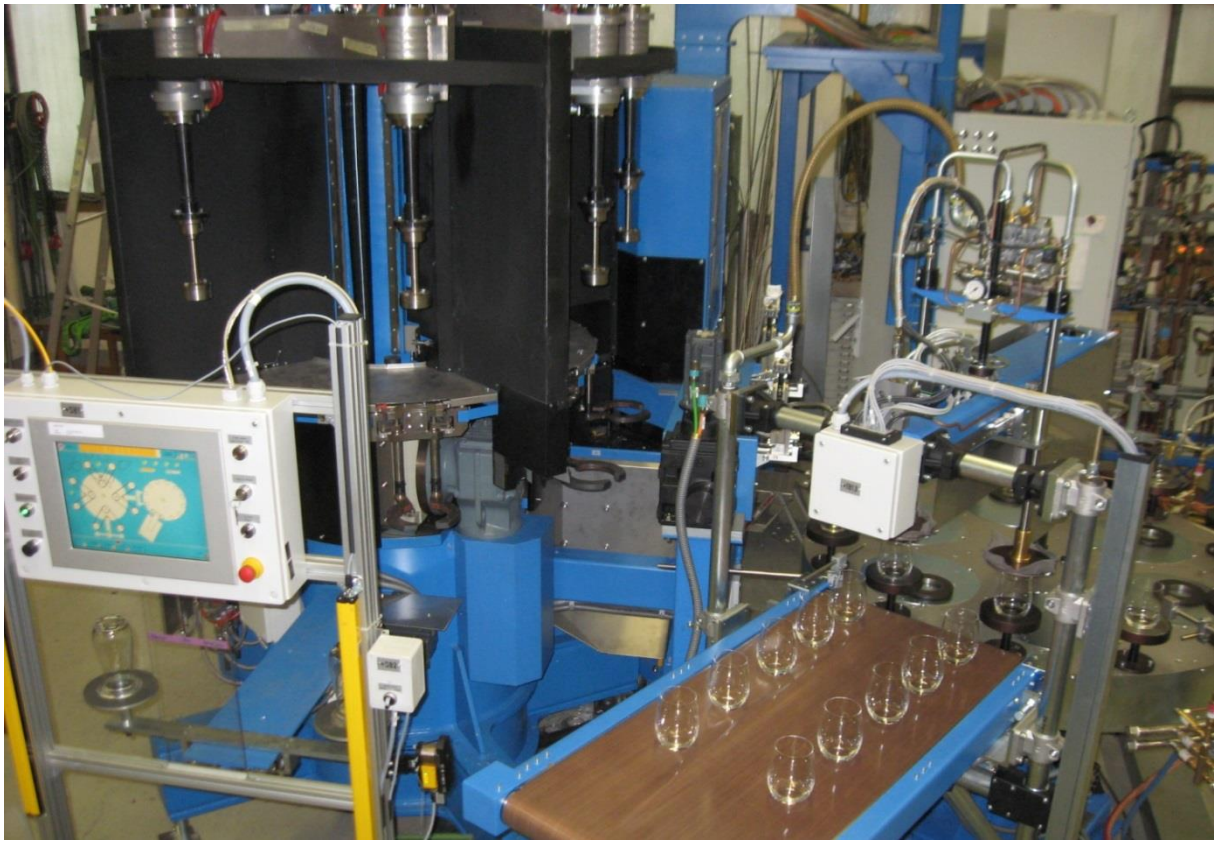
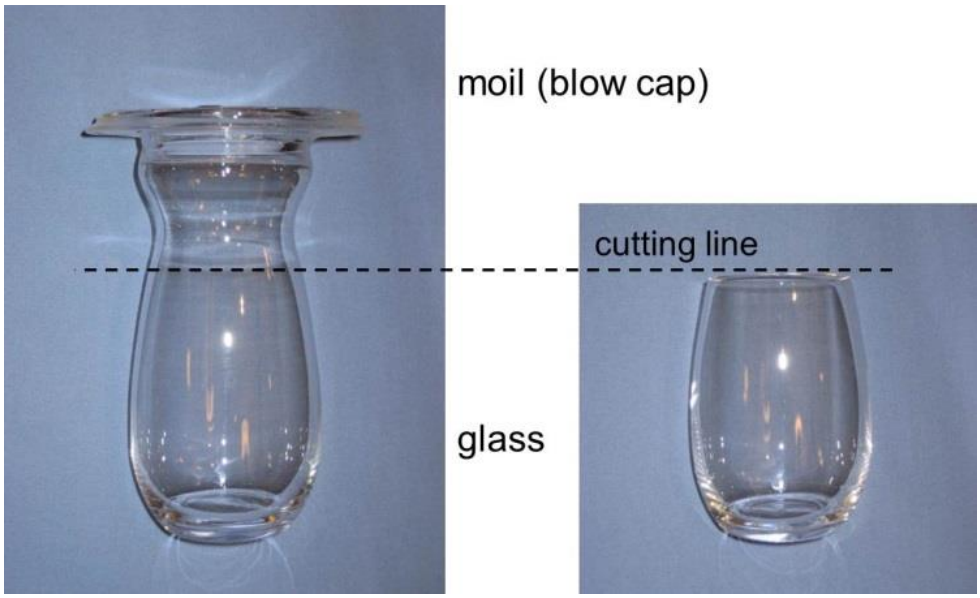
Laser Hot Cutting



GLAMACO has been developing a new innovative machine for glass cutting for blown table ware and technical hollow glasses. It is working on the principle of Laser Hot Cutting called LHC. The new machine LHC replaces existing burn off and crack off processing.



LHC – Laser Hot Cutting, Sample

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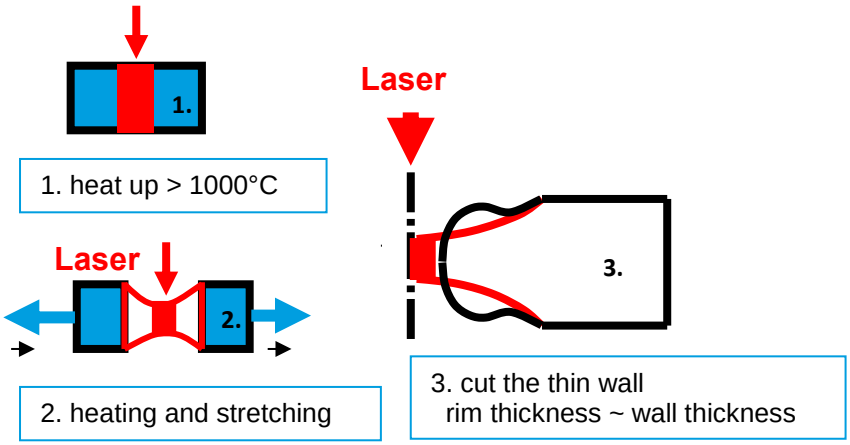
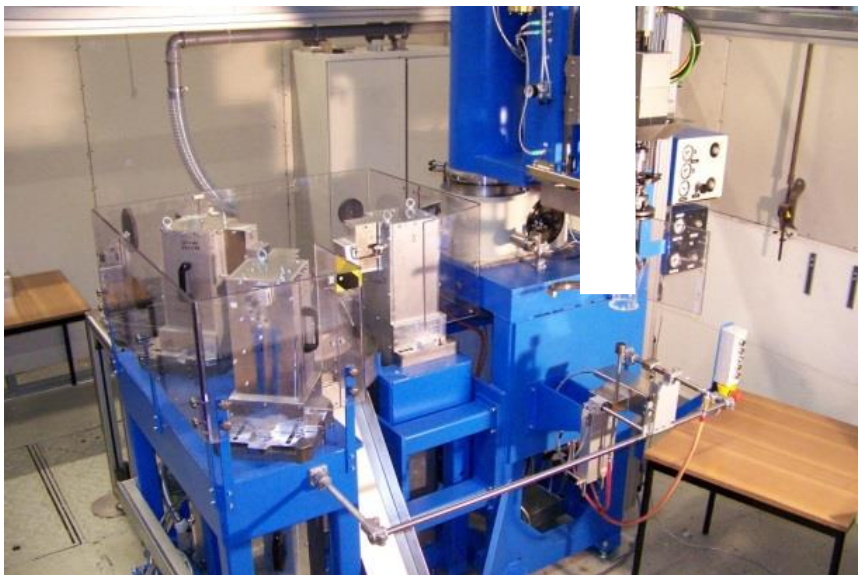
Basics

- Cutting of many glass types
- Hot End or Cold end processing
- Cold end processing: partial annealing necessary
- Shape: round, oval, hexagonal and flat

- Samples: blown table ware and tubes
- Wall thickness 0.5 …3.0 mm



Principle – Laser Hot Cutting



LHC Single Station Machine

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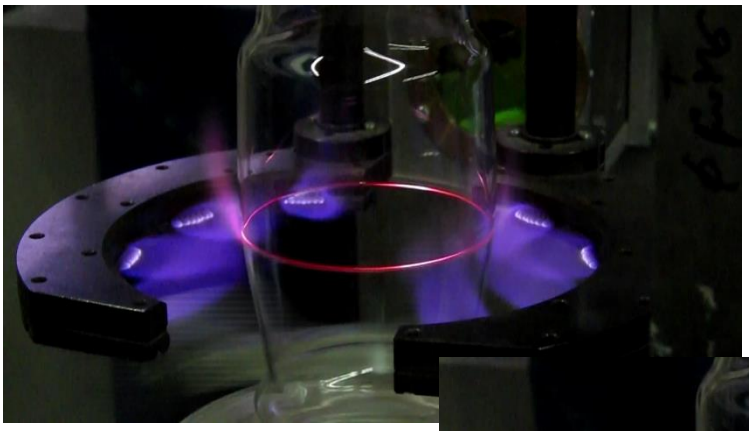
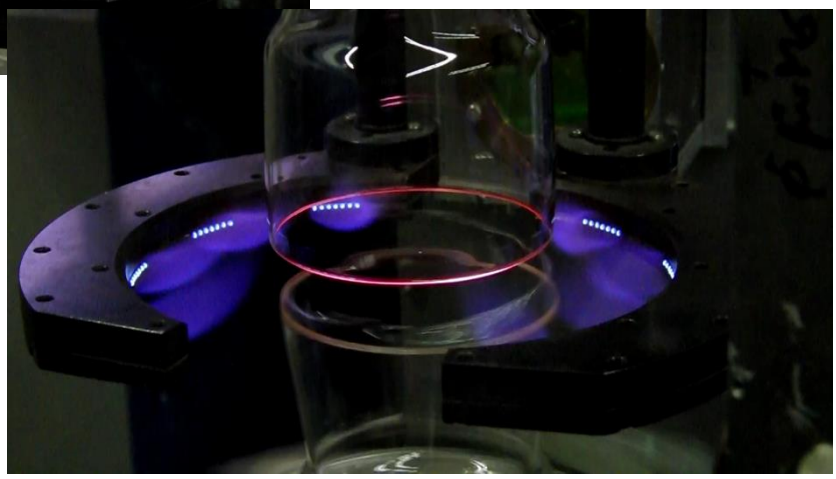
Loading + Preheating



Cutting



Cutting and rim melting

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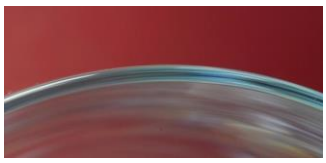
LHC rim quality



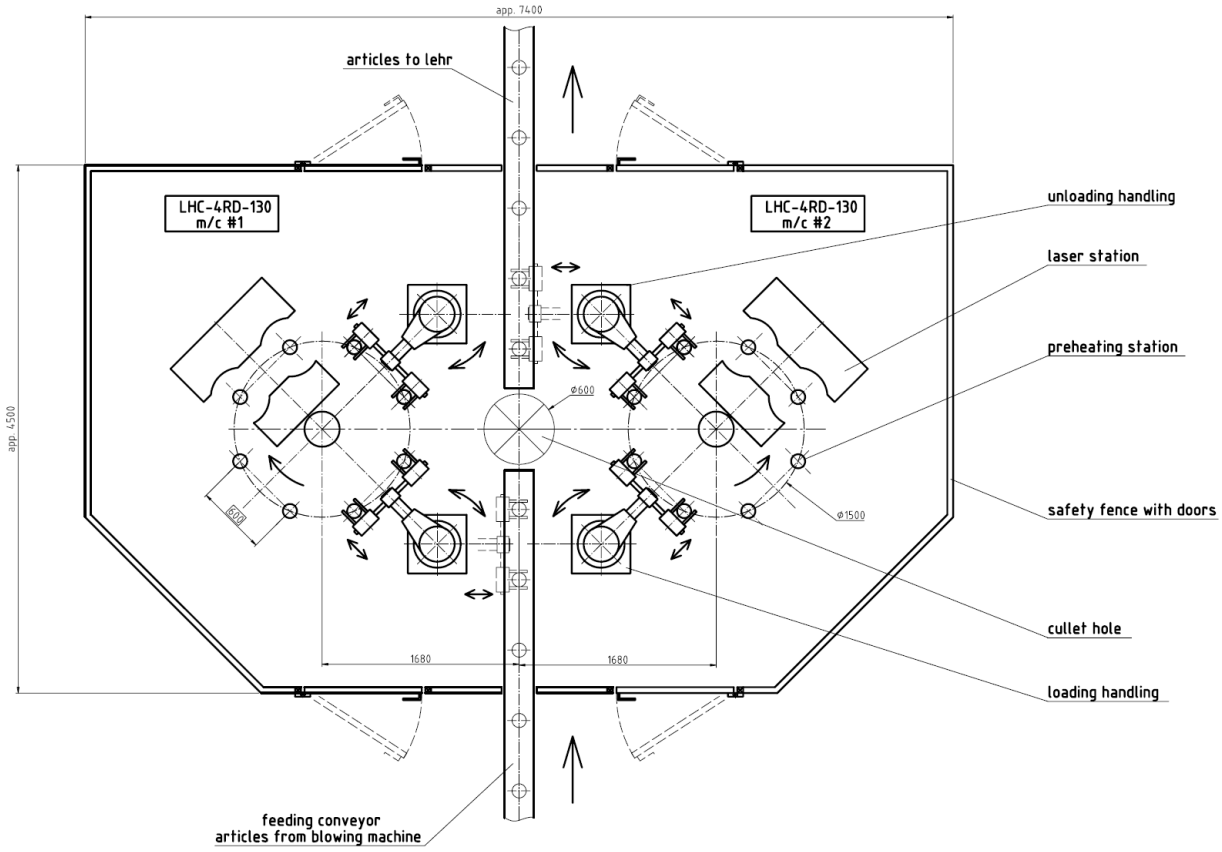
competitor = many bubbles
size up to 400µm

GLAMACO = no bubbles
size > 50 µm

Advantages of LHC

- no grinding → no waste water
- no grinding → no cost for diamond grinding wheels
- hot end process → no stress in rim left
- less glass in annealing lehr → less energy consumption
- online measuring system → fast quality check
- thin rim for high quality glasses

Layout



2 machines for stemware and tumbler
speed up to 30 pcs./min at wall thickness of 1.1 mm

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